

Scatterplots Quiz

/17 Name _____

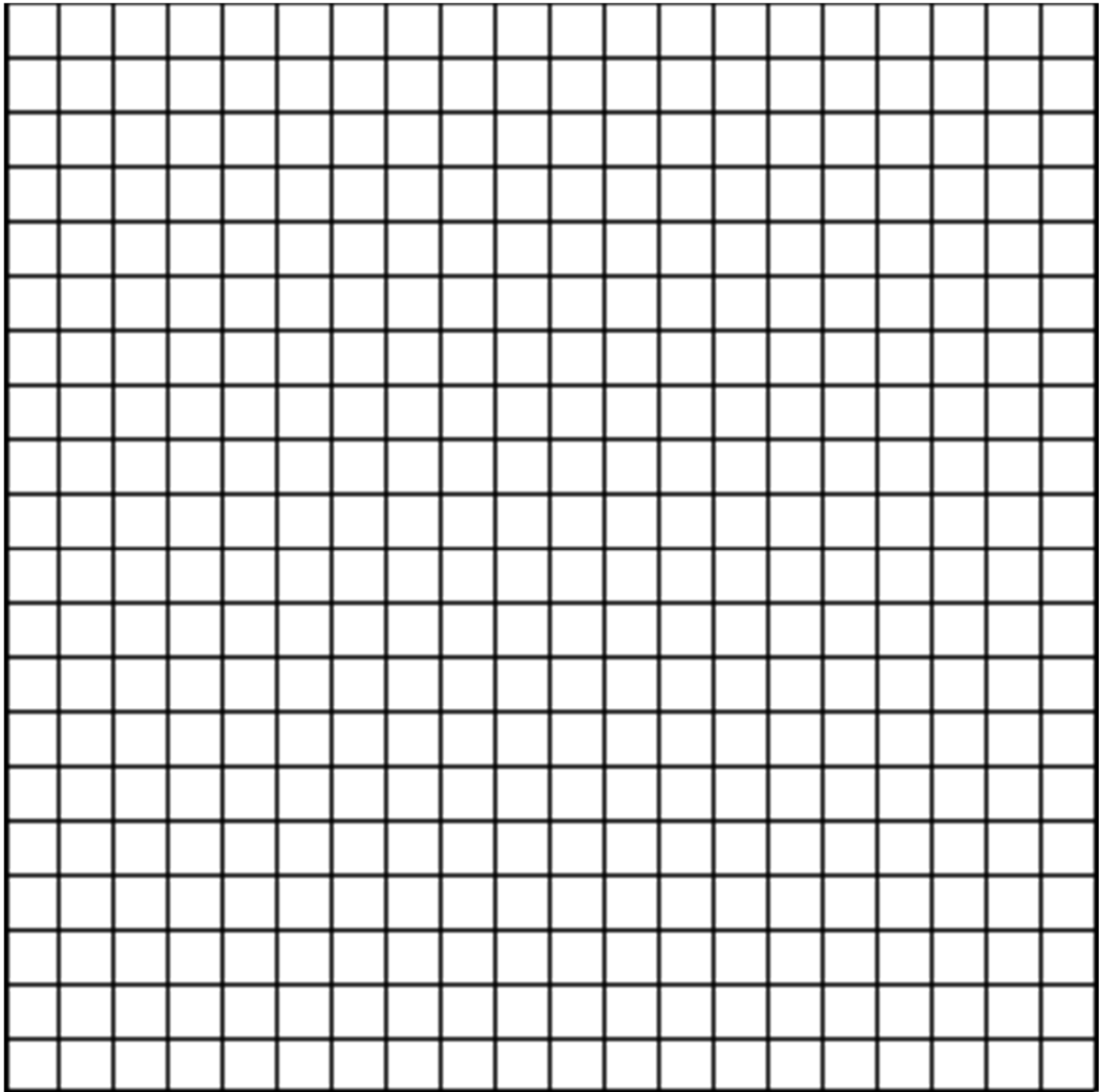
Date _____

1. The following chart shows the number of jump shots made when a person stands at varying distances from a basketball net.

Distance from Basket (m)	8	5	3	6	5	2
Jump Shots made(out of 25)	6	10	15	7	9	18

a) (2) Which is **dependent (D)** and **independent (I)** ? Distance from basket _____ Jump shots made _____
Explain how you know. _____

c) Draw a scatterplot for the data. /5



Checklist: T A I L S

Graph title ☐

Independent variable on x-axis, dependent variable on y-axis ☐ consistent intervals on both axes ☐

consistent division on both axes (consistently spaced values) ☐

Titles on both axes ☐ Units on both axes (if applicable) ☐

Scale chosen so its easy to plot points ☐

Scales chosen well so that space given is mostly filled with graph ☐

d) What is the trend in the data? (circle one) There is a positive / a negative / no trend in the data. /1

e) Does the graph seem to have a linear pattern, non-linear pattern, or is there no pattern (circle one)? /1

f) Look at the scatterplot. Does there appear to be a relationship between Distance from Basket and Jump Shots made? Explain. (1)

g) (2) Is the data **discrete** or **continuous**? (circle) How do you know? _____

h) (3) Write **D** for discrete data or **C** for continuous data:

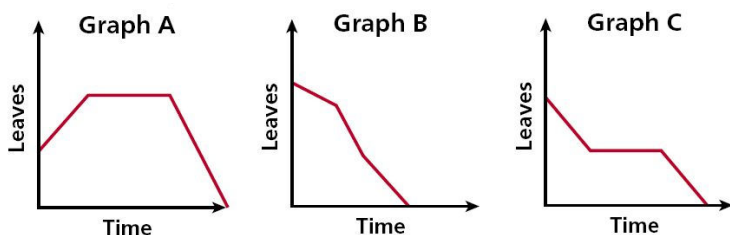
i) tickets to a concert cost \$20 each _____

ii) the temperature inside a car over time _____ iii) the age and height of each person on the team _____

i) Predict the shape of graph that best describes the data. (Read the graphs from left to right to show time passing.) /2

a) Each day several leaves fall from a tree. One day a gust of wind blows off many leaves. Eventually there are no more leaves on the tree. Which graph best represents the situation? Graph _____

b



b) The air temperature increased steadily for several hours and then remaining constant (the same). At the end of the day, the temperature increased slightly before dropping sharply. Which graph best represents the situation? Graph _____

